

WHEN YOU NEED TO BE SURE

SGS

CyFlex® Knowledge Article

Converting from PAM to DARTS

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January 18, 2021

General Information and Instructions

This Cyflex® Knowledge Article describes procedures to convert from PAM data to DARTS data.

go script

Revise the go script as follows:

- Remove `pam_specs` and `PAMheader`.
- Replace `datapoint` with `darts_datapoint`.

Spec File Format Conversion

The format of the spec file for `darts_datapoint` differs from `datapoint`. Convert the `/specs/pam_specs.xxx` file to a new `/specs/darts_specs.xxx` file.

Refer to *Converting pam_specs.XXX to darts_specs.xxx* below.

New /cell/darts_fixed.xxx file

The new `/cell/darts_fixed.xxx` file is considered a test cell configuration file versus a test set up file like `engine_specs`. The `darts_fixed.xxx` file is unlikely to be modified after CyFlex is set up at a test cell.

The contents of the `darts_fixed.xxx` file must include mandatory keywords required by DARTS to accept the datapoint files. Refer to *Sample darts_fixed.XXX File* on page 3.

Converting pam_specs.XXX to darts_specs.xxx

`$PAMHeader` to `$DartsHeader` converts precisely.

Move all `$PAMDatapoint` content to the `$Measured` section of the `darts_specs.xxx` file with exceptions of `ECM_` and `USER` keywords. Take the following actions for these:

- Place all keywords prefixed by `ECM_` in the `$ECM` section. This will send to DARTS using Calterm names. For example:
 Change `Accelerator_Pedal_Position AVER ECM_ACCELERATOR_PEDAL_POSITION` from:
 to:
`Accelerator_Pedal_Position AVER Accelerator_Pedal_Position`
- Place all keywords that use `USERXX@XX` as their keyword in the `$AuxUser` section. For example:
 Change `ext_ot_p AVER USER1@2` from:
 to:
`ext_ot_p AVER ext_ot_p`

Converting pam_pnp to darts_pnp

Perform the actions described in *Converting pam_specs.XXX to darts_specs.xxx* on page 1 for the files listed in the /specs/pam_pnp file.

Additionally, rename the /specs/pam_pnp file to /specs/darts_pnp.

Sample darts_specs.XXX file

```

$Type
DARTS_SS_SPECS

$FormatRev
REV01

$DartsHeader
# TestID      testid extension
myTestID      ctc

$Measured
# Label      Averaging      DARTS Keywords (0-4)
# Note: DARTS keywords are case-sensitive and must be all caps
exh_stk_p          AVER          TUR_OT_P
fpmp_in_p          AVER          FPMP_IN_P
barometer          AVER          BAROMETER SAE_REF_PA

$ECM
# Label      Averaging      Stored_Channel_Names (0-4)
# Note: Stored_Channel_Names are arbitrary but must not conflict with
# ECM 0 data source
Accelerator_Supply_Voltage1      AVER      Accelerator_Supply_Voltage@1
Accelerator_Pedal_Position        AVER      Accelerator_Pedal_Position
Accel_Position_Sensor_Volts1      SNAP      Accel_Position_Sensor_Volts@1

$AuxUser
# Label      Averaging      Stored_Channel_Names (0-4)
# Note: Stored_Channel_Names are arbitrary but must not conflict with
# Standard keywords
ext_ot_p          AVER          ext_ot_p
press_1          AVER          press@1

```

Sample darts_fixed.XXX File

```
# The darts_fixed file specifies data to be included in the
# $FixedMetaData section of the darts_datapoint and dlogger output
# files.
# The default path is: /cell/darts_fixed.<cell_name>
$Type
DARTS_SS_FIXED
$OutputPath
/data/transfer/darts_datapoint
$FormatRev
REV01
# The keywords represent CyFlex labels that are mandatory to send
# datapoints to DARTS.
$Keywords
#<CyFlex label>      <DARTS keyword>
program              PROGRAM              #Required
tpid                 TEST_ID              #Required
test_type            TEST_TYPE            #Required
MODE                 MODE                #Required
group                GROUP                #Required
site                 SITE
tc                   TESTCELL
$END
```